

**SIMULATION/EMULATIONMEMMCOVERIFICATIONBEHAVIOR PROCESSOR  
SYSTEM AND METHOD**

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The debug system described in this patent specification provides a system that generates hardware elements from normally non-synthesizable code elements for placement on an FPGA device. This particular FPGA device is called a Behavior Processor. This Behavior Processor executes in hardware those code constructs that were previously executed in software. When 10 some condition is satisfied (e.g., If...then...else loop) which requires some intervention by the workstation or the software model, the Behavior Processor works with an Xtrigger device to send a callback signal to the workstation for immediate response.

PCT/US2001/045337